

REPLACEMENT SHEET

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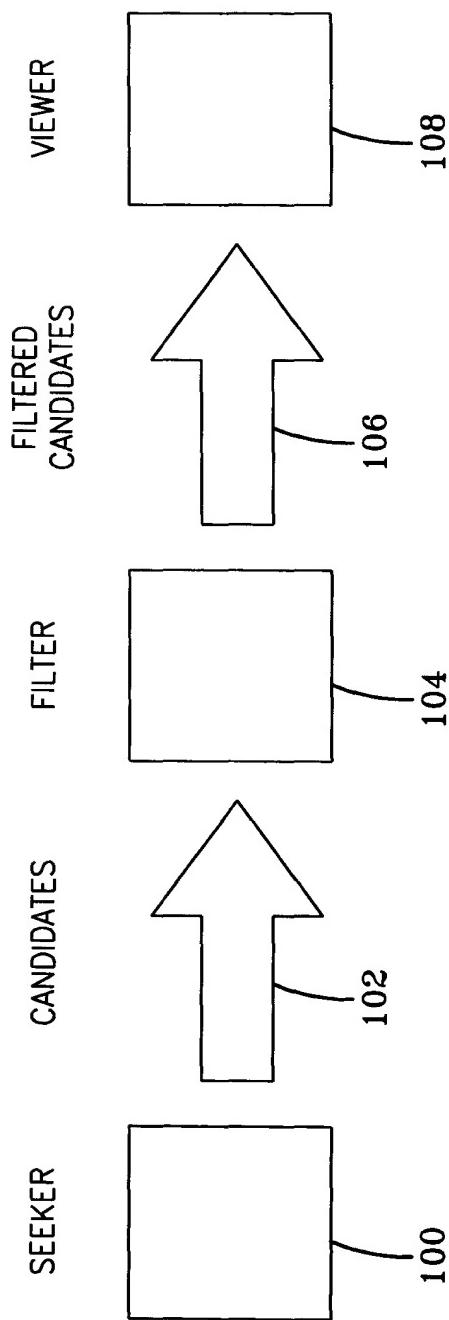


FIG-1

REPLACEMENT SHEET

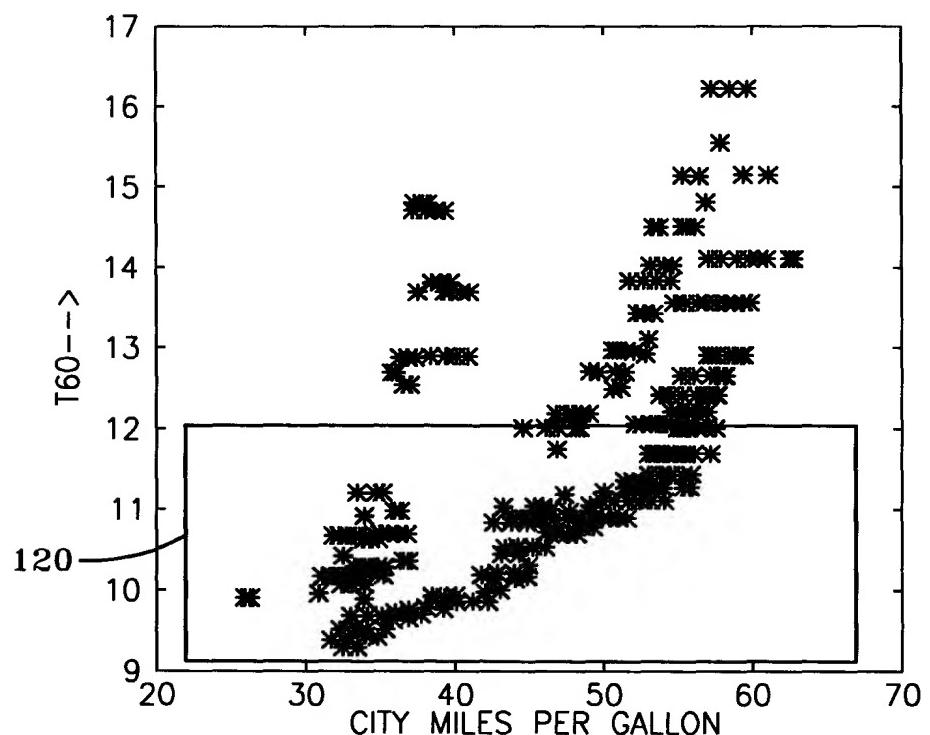
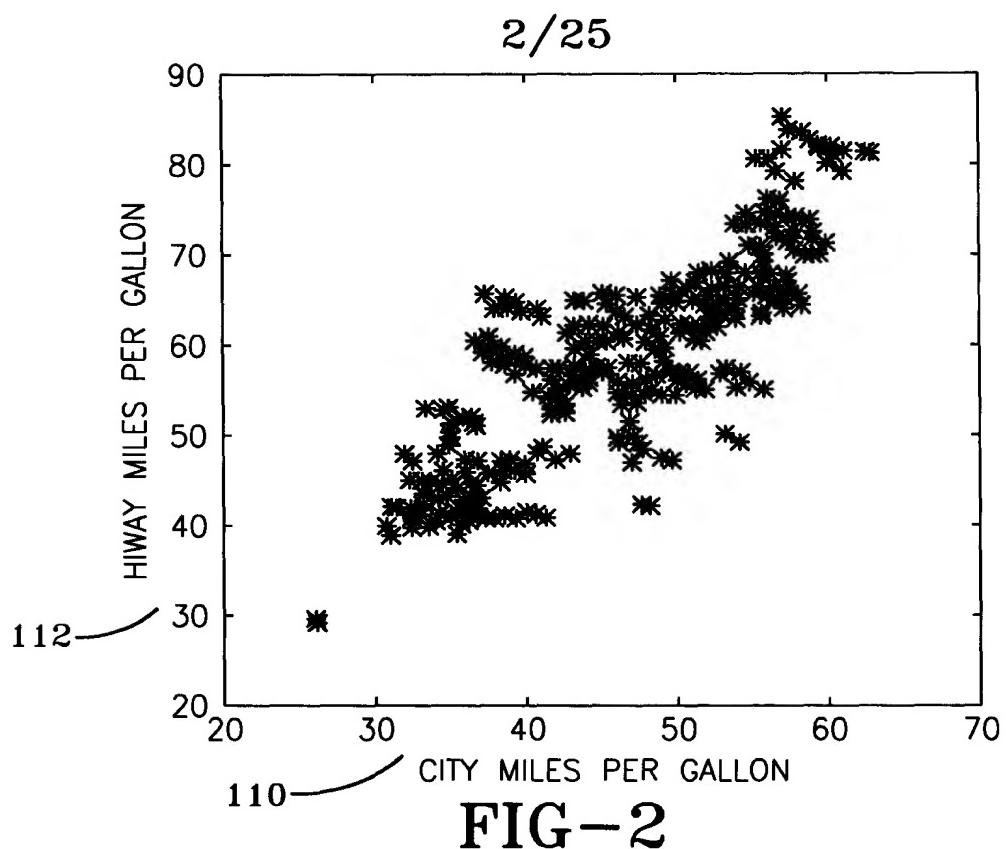


FIG-3

REPLACEMENT SHEET

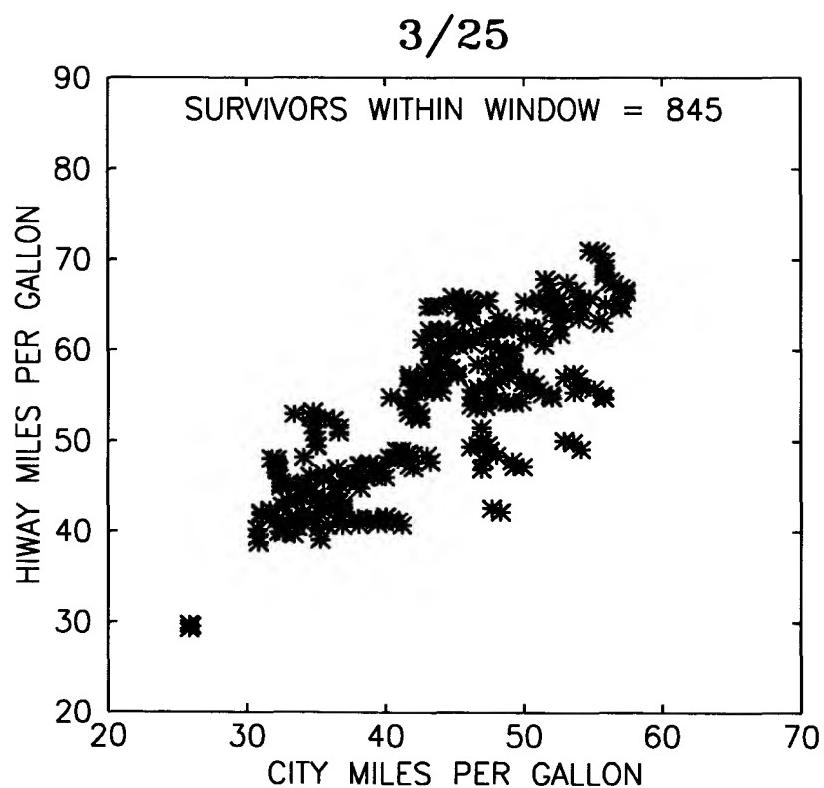


FIG-4A

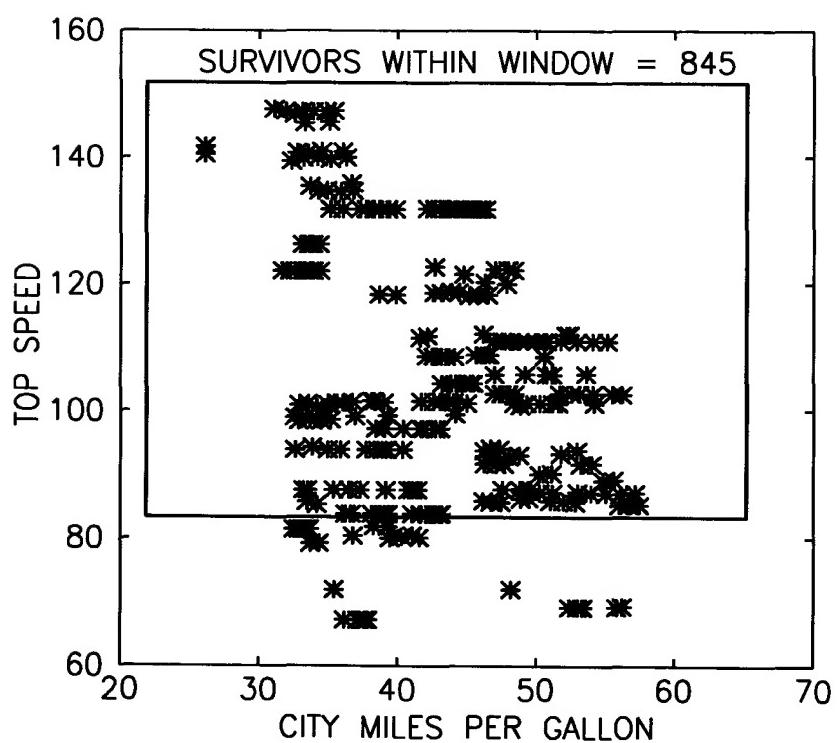


FIG-4B

REPLACEMENT SHEET

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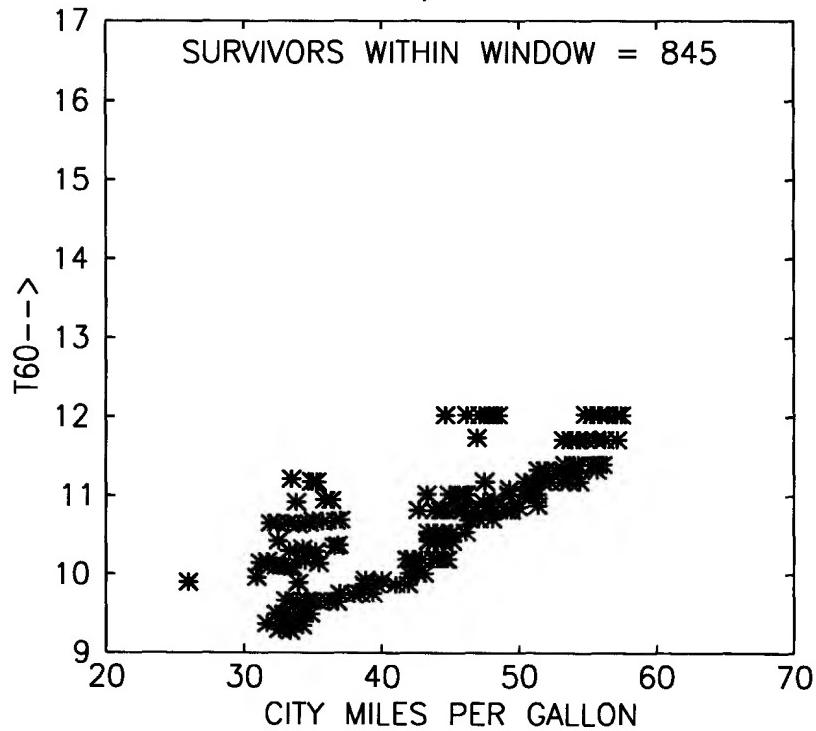


FIG-4C

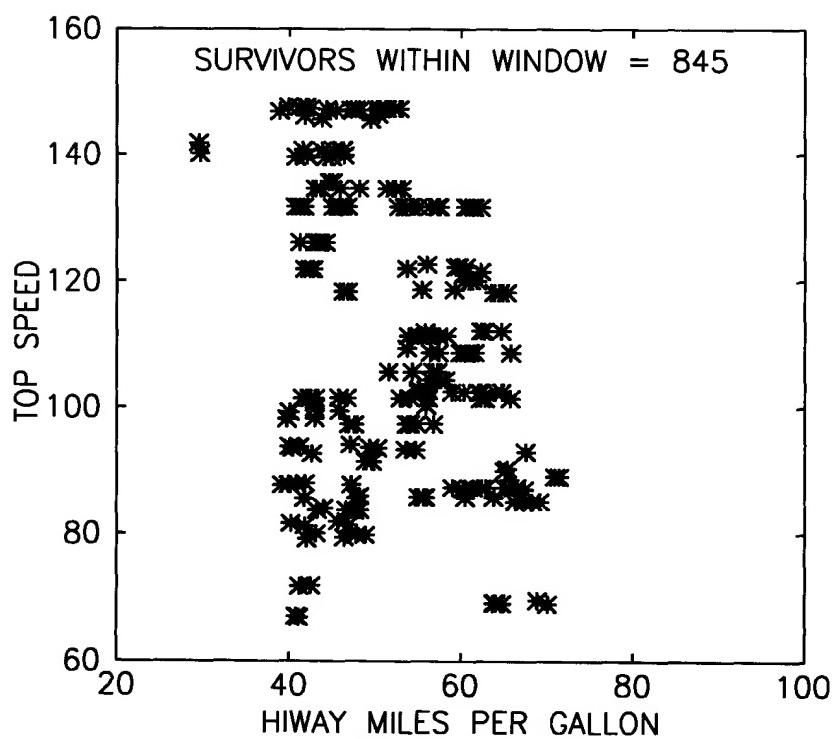


FIG-4D

REPLACEMENT SHEET

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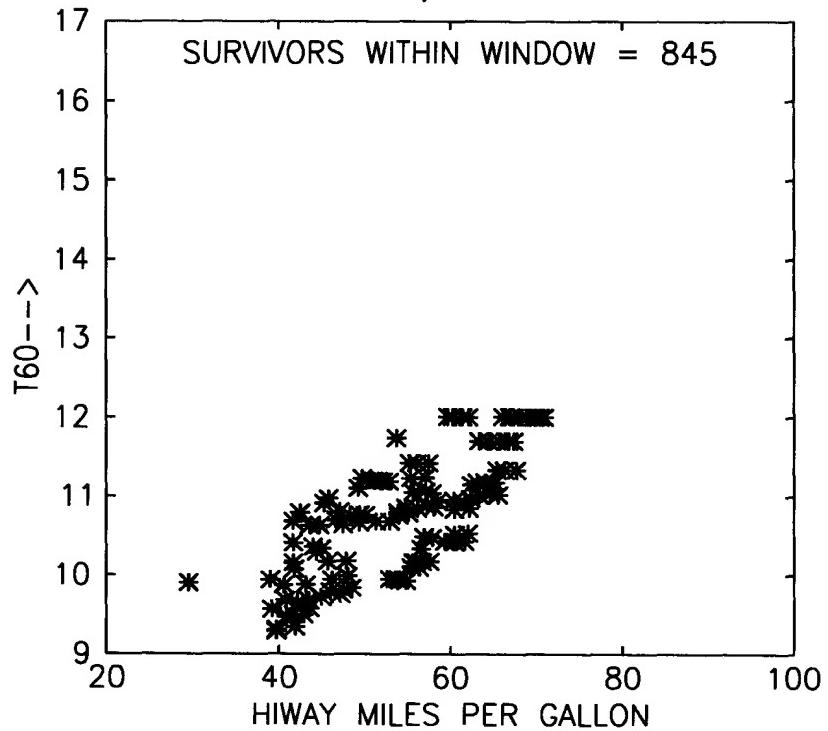


FIG-4E

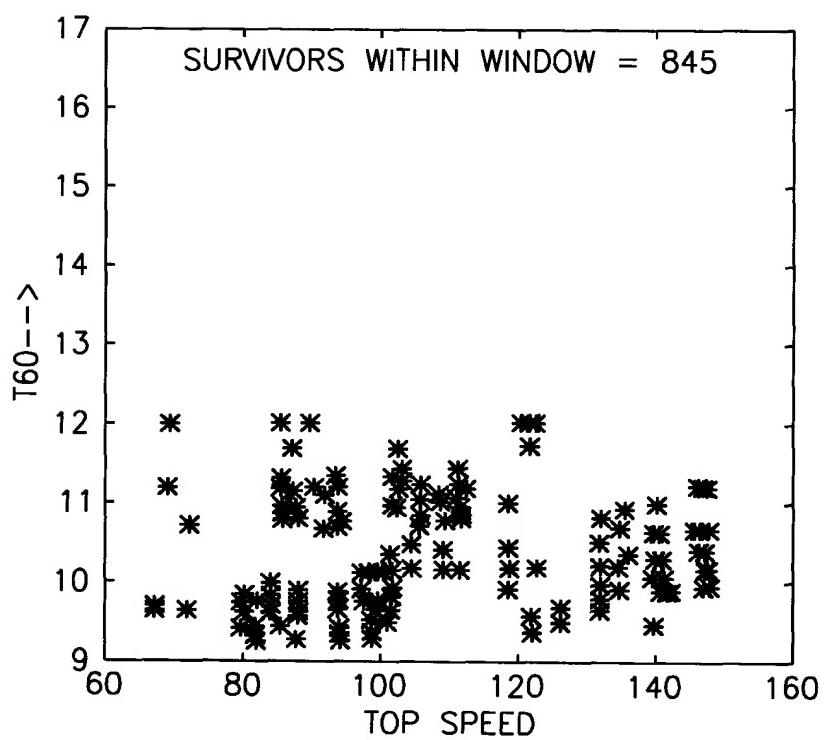


FIG-4F

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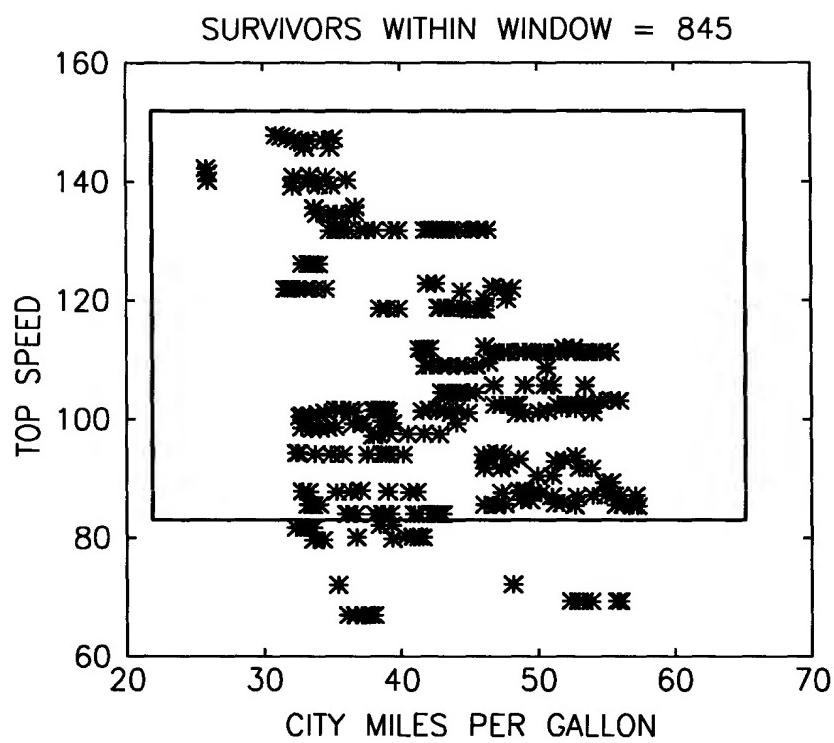


FIG-5

REPLACEMENT SHEET

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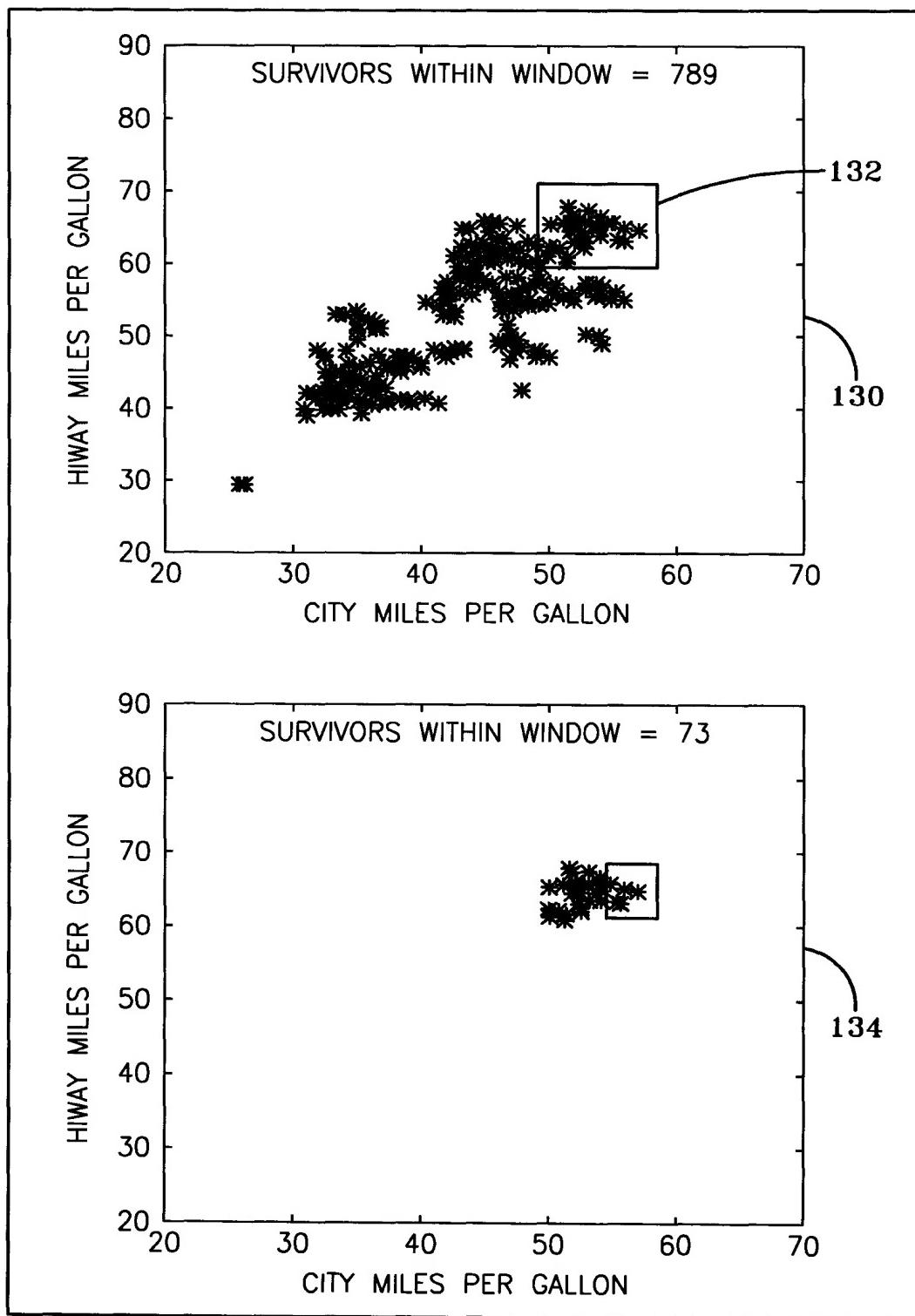


FIG-6

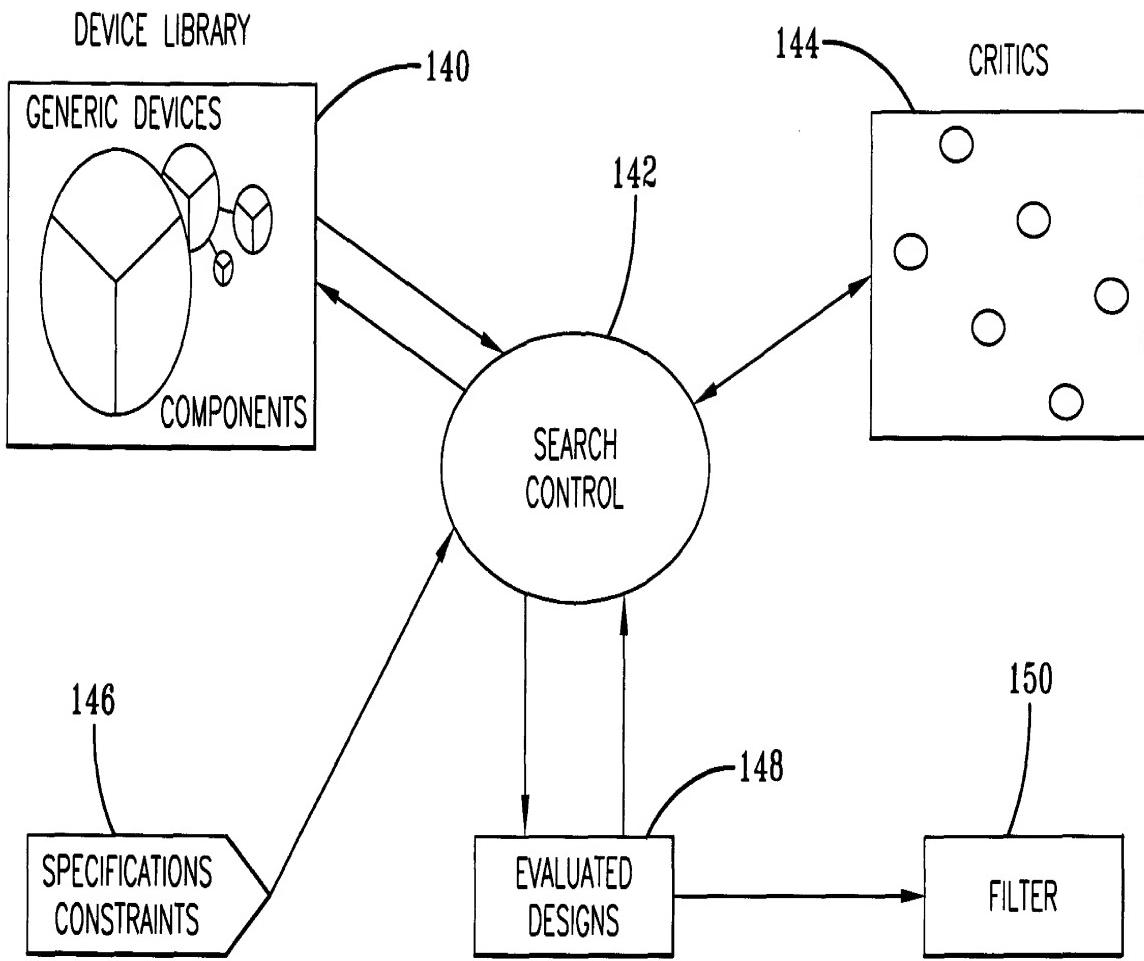


FIG-7

FIG-8

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Entity: 15gal_tank

quantities:

volume: float

density: float

flow_rate: float

behaviors:

 $(time = 0) \Rightarrow volume = 15/264 \text{ m}^3$

% 15-gallon tank

 $\text{diff}(volume) = - \text{flow_rate}$ density = 0.00078 kg/m³

% Diesel Fuel

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Entity vw19

quantities:

torque: float

speed: float

efficiency: float

BSFC: float

behaviors:

 $T_w_{vw19}[speed] * \text{driver.throttle_angle}$

= torque

 $\text{efficiency}_{vw19}[\text{torque}, \text{speed}]$

= efficiency

BSFC_map[torque,speed*30/pi]

= BSFC % in gram/kW-hr

Relation transmission_diffgear

participants:

transmission: 5_speed_manual

diffgear: diffgear4_6

behavior:

transmission.torque_out = diffgear.torque_in

transmission.speed_out = diffgear.speed_in

% All losses from output shaft of ICE to wheel % are accounted for in the transmission

% efficiency

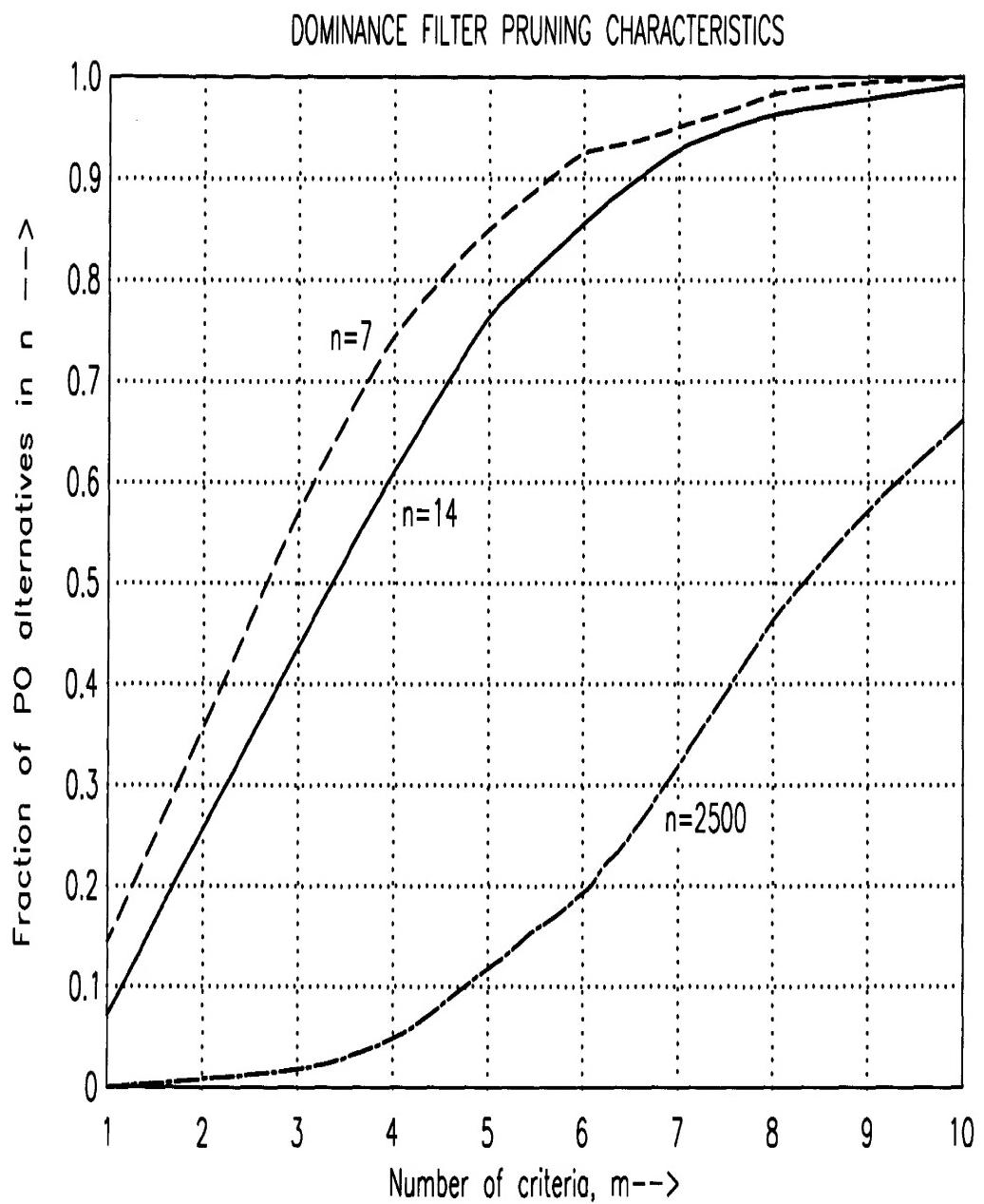
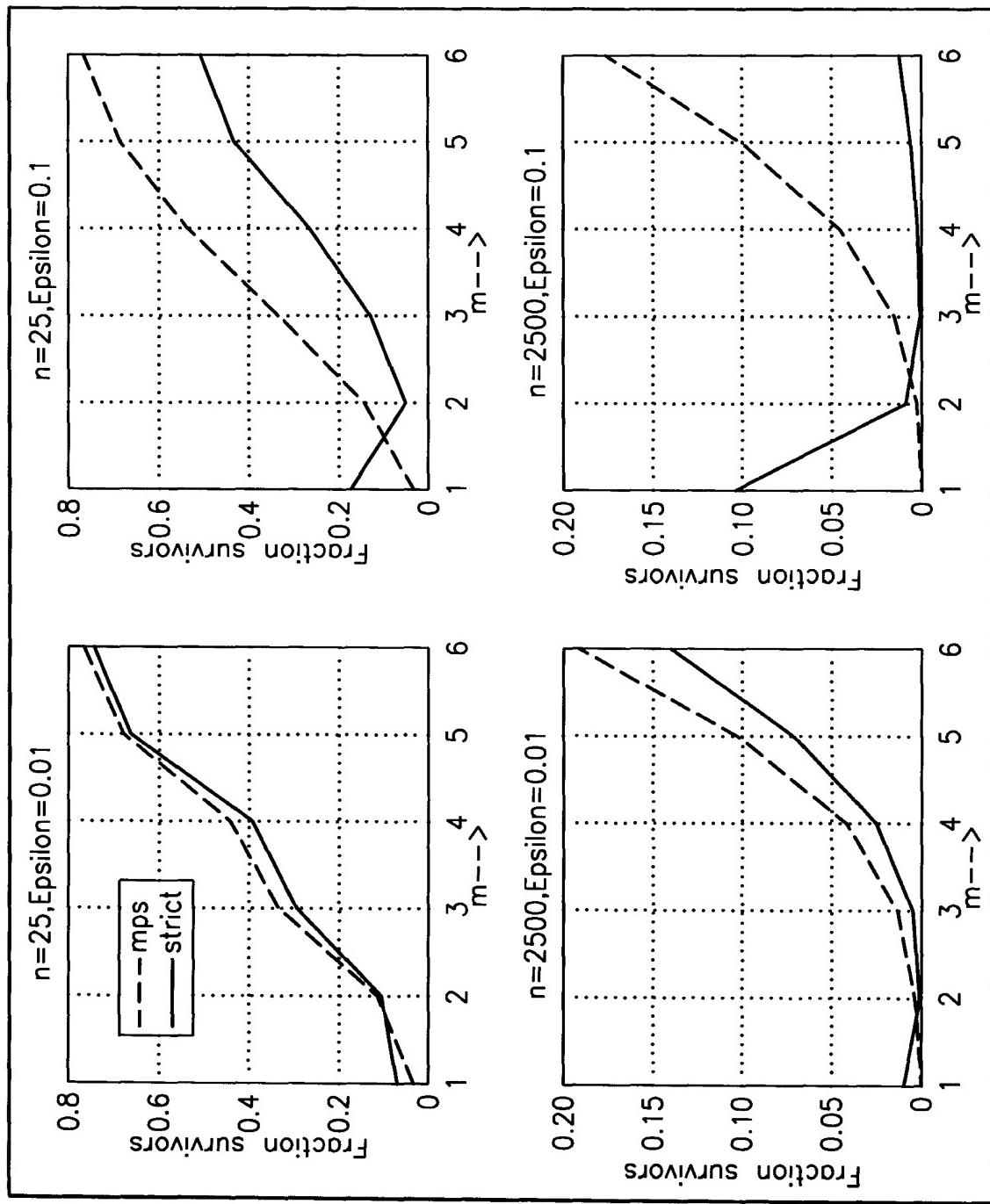


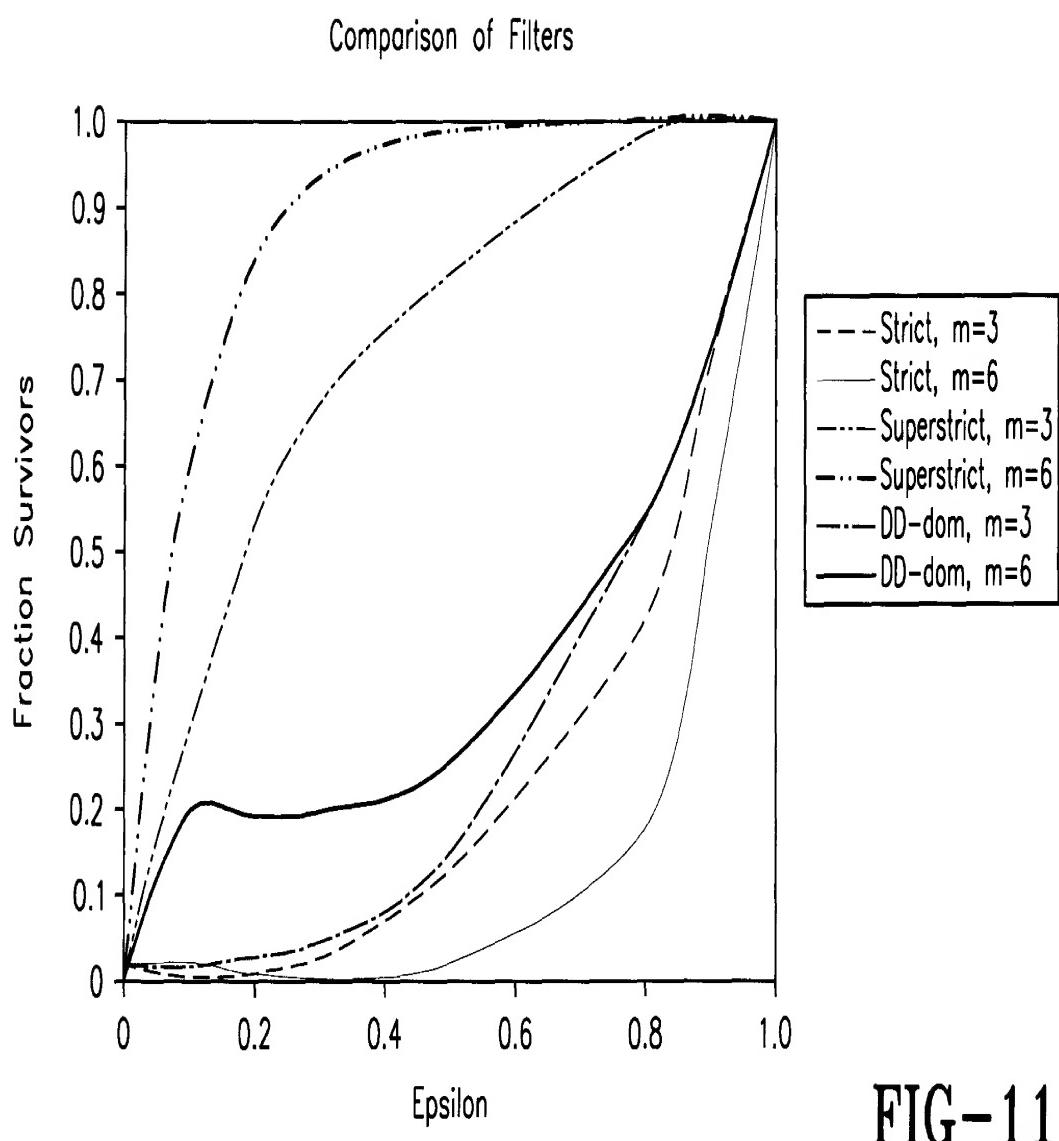
FIG-9

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FIG-10





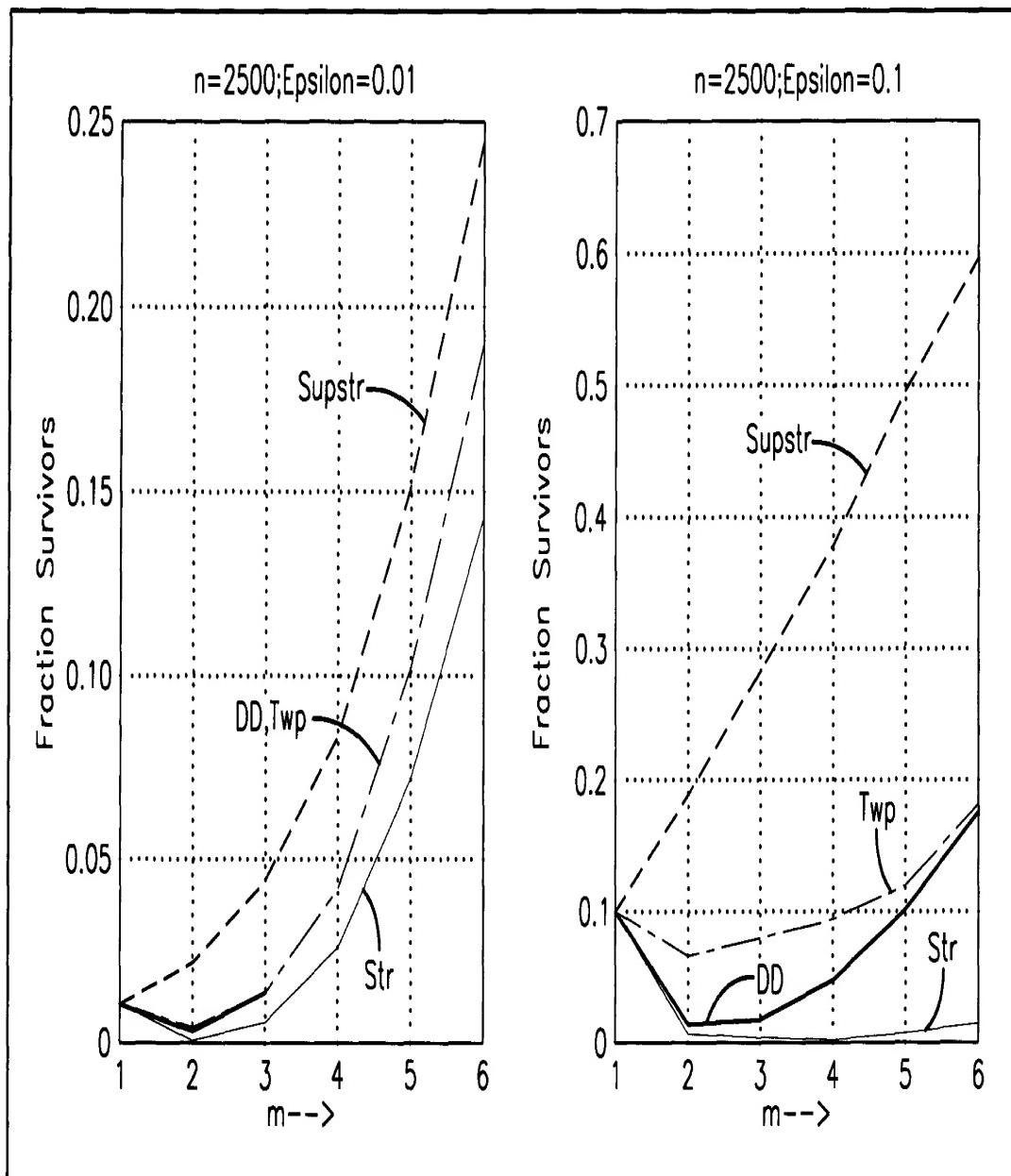


FIG-12

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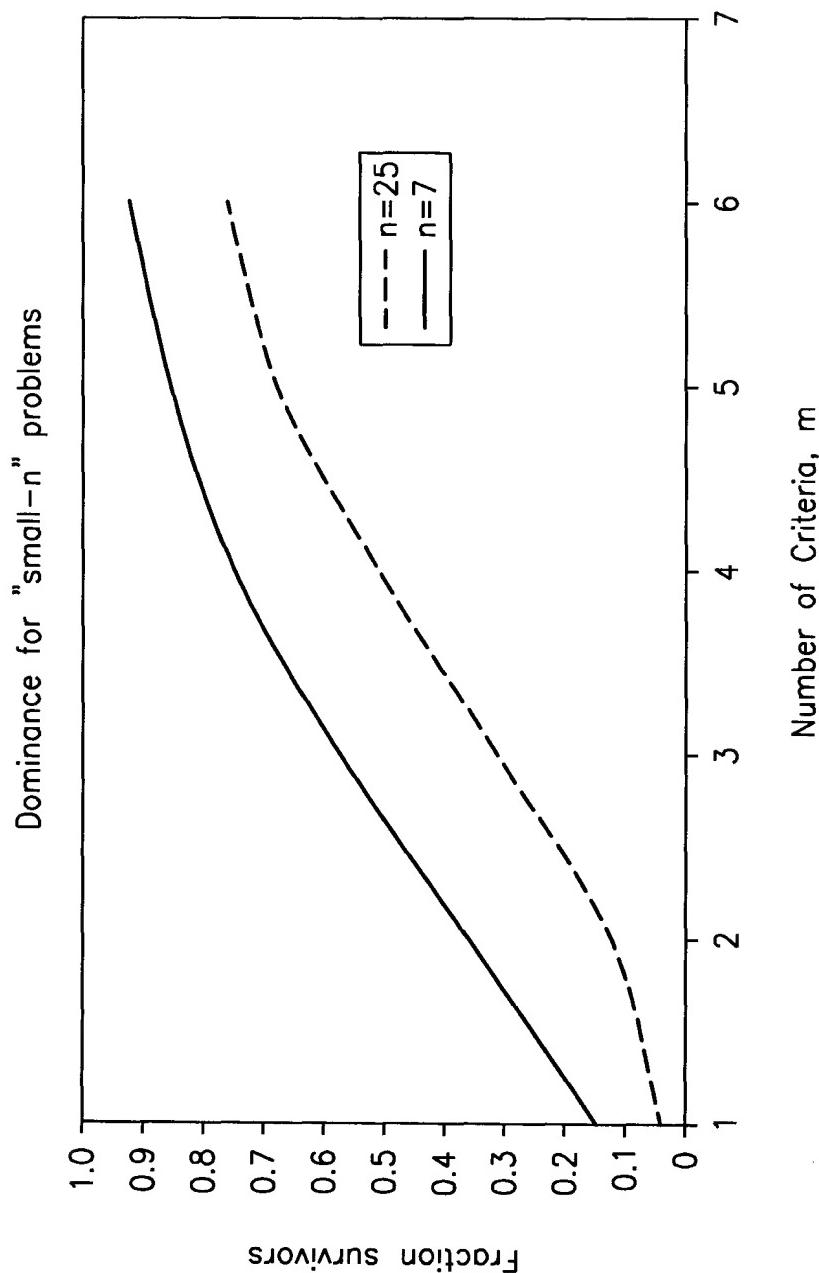


FIG-13

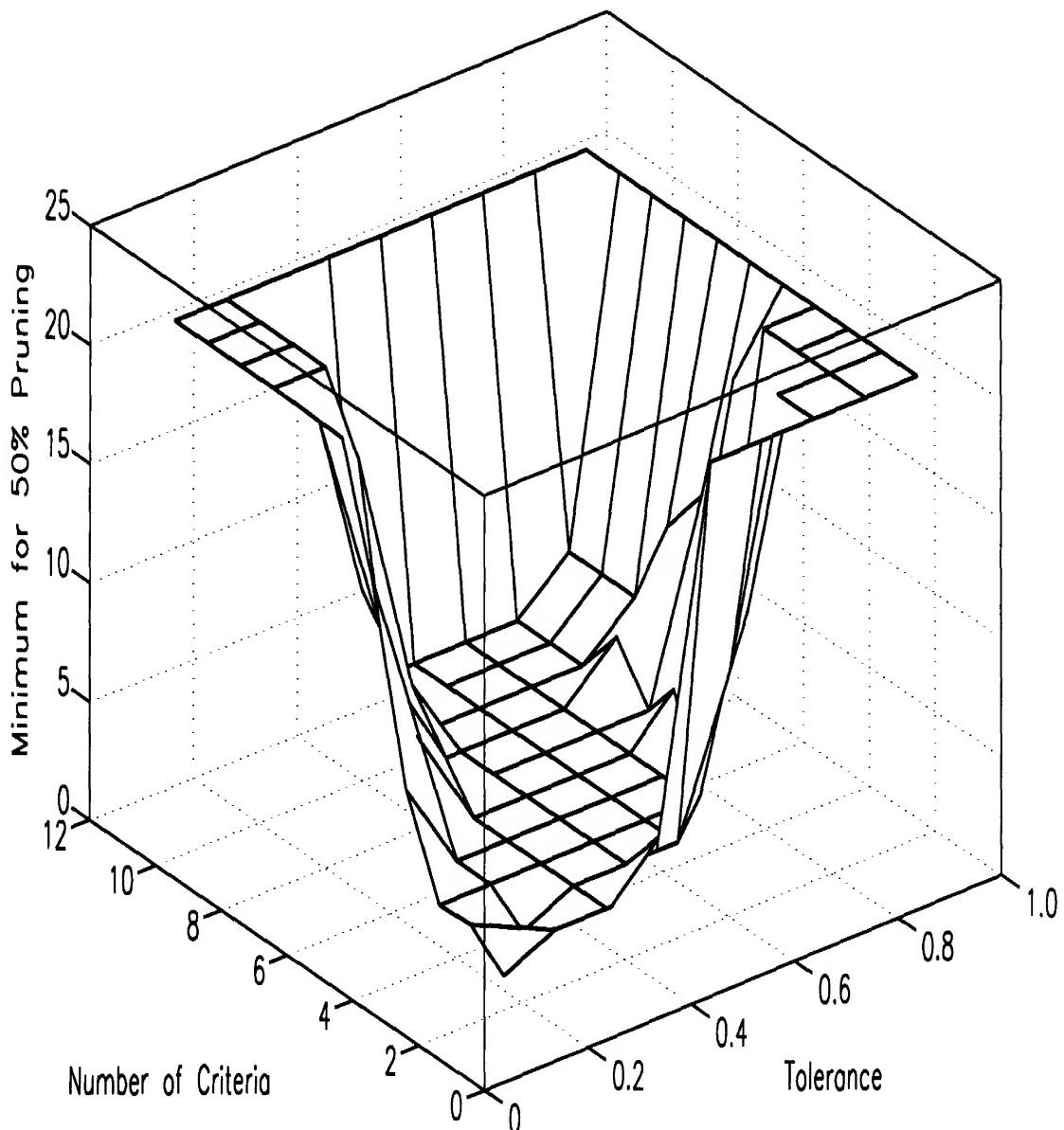
Basin of Goodness for Strict dominance for $n \leq 20$ problems with 50% Pruning

FIG-14

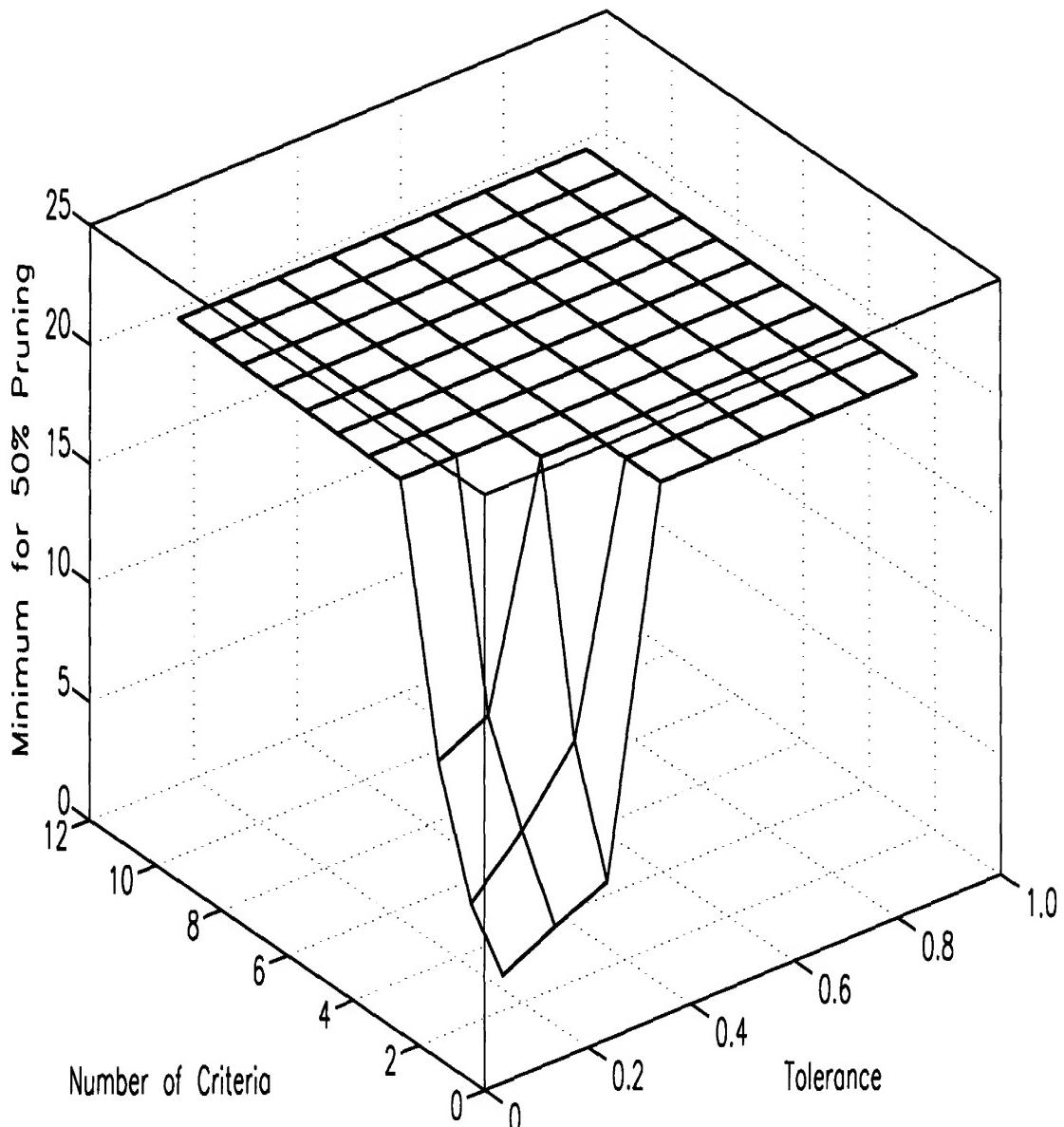
Basin of Goodness for twopass filter for $n \leq 20$ problems with 50% Pruning

FIG-15

REPLACEMENT SHEET

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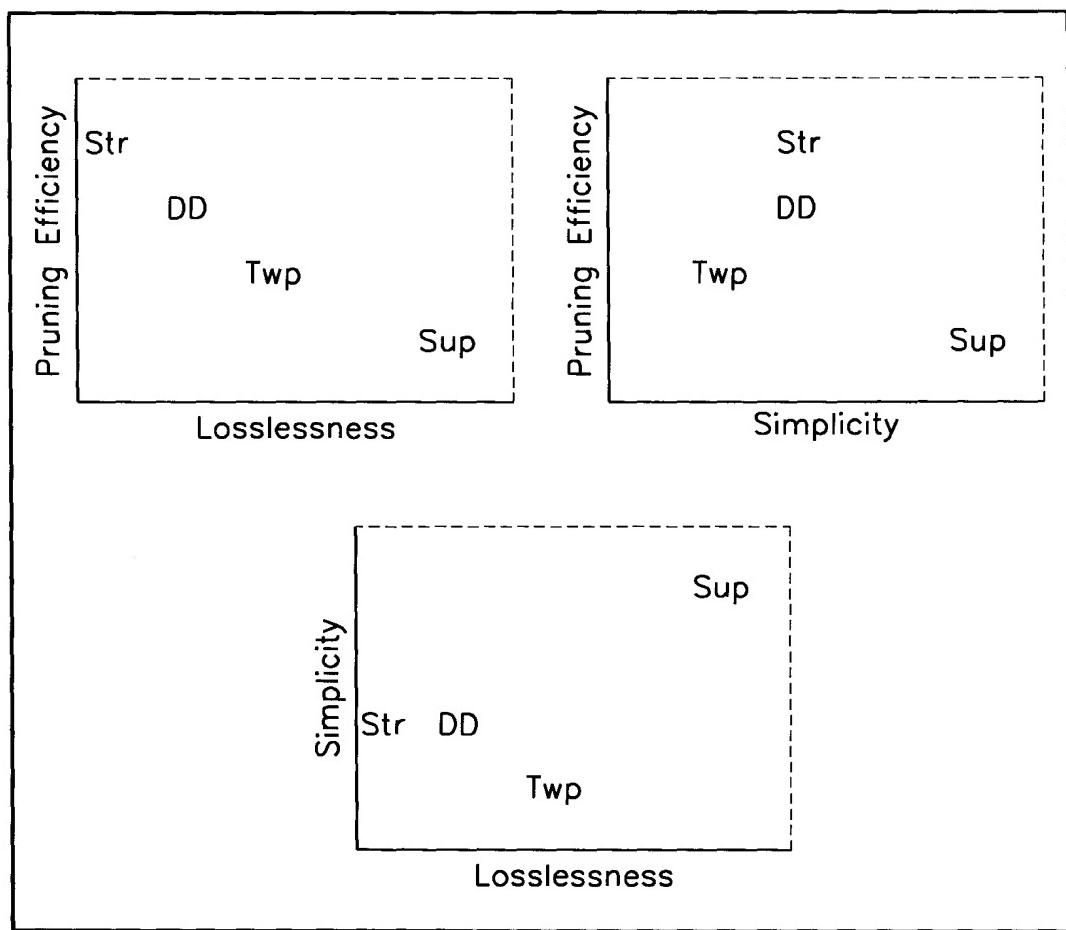


FIG-16

REPLACEMENT SHEET

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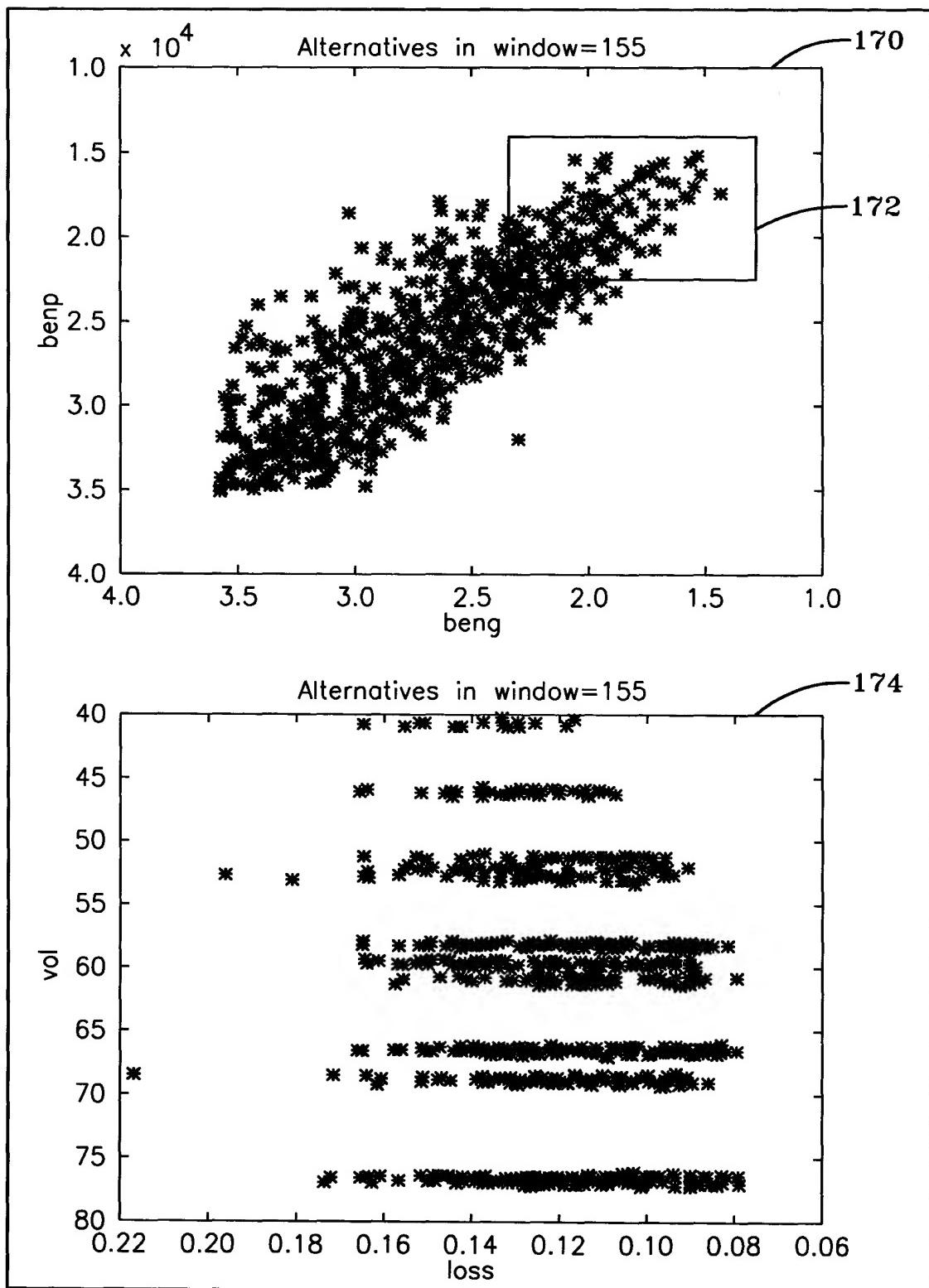


FIG-17

REPLACEMENT SHEET

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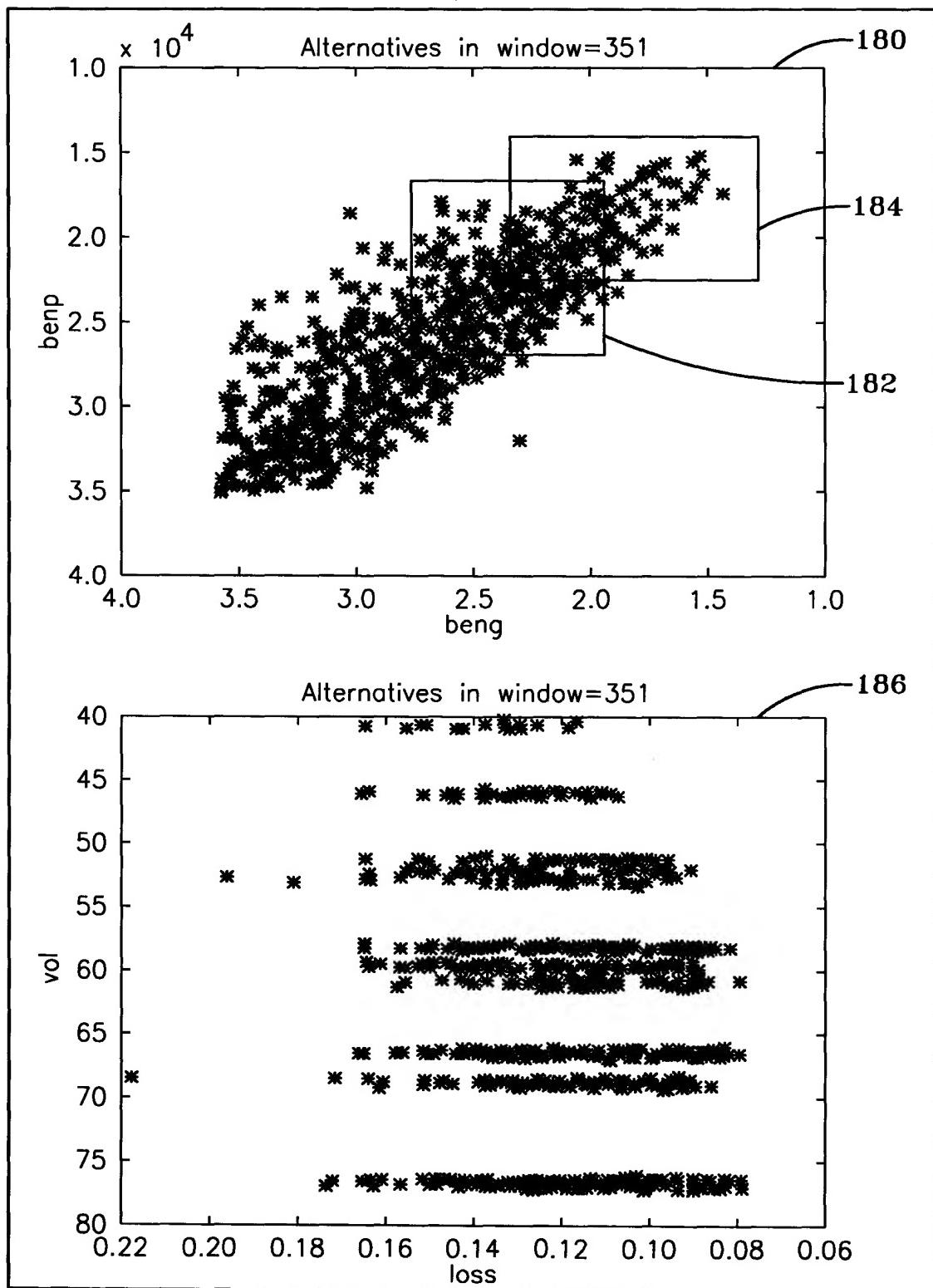


FIG-18

REPLACEMENT SHEET

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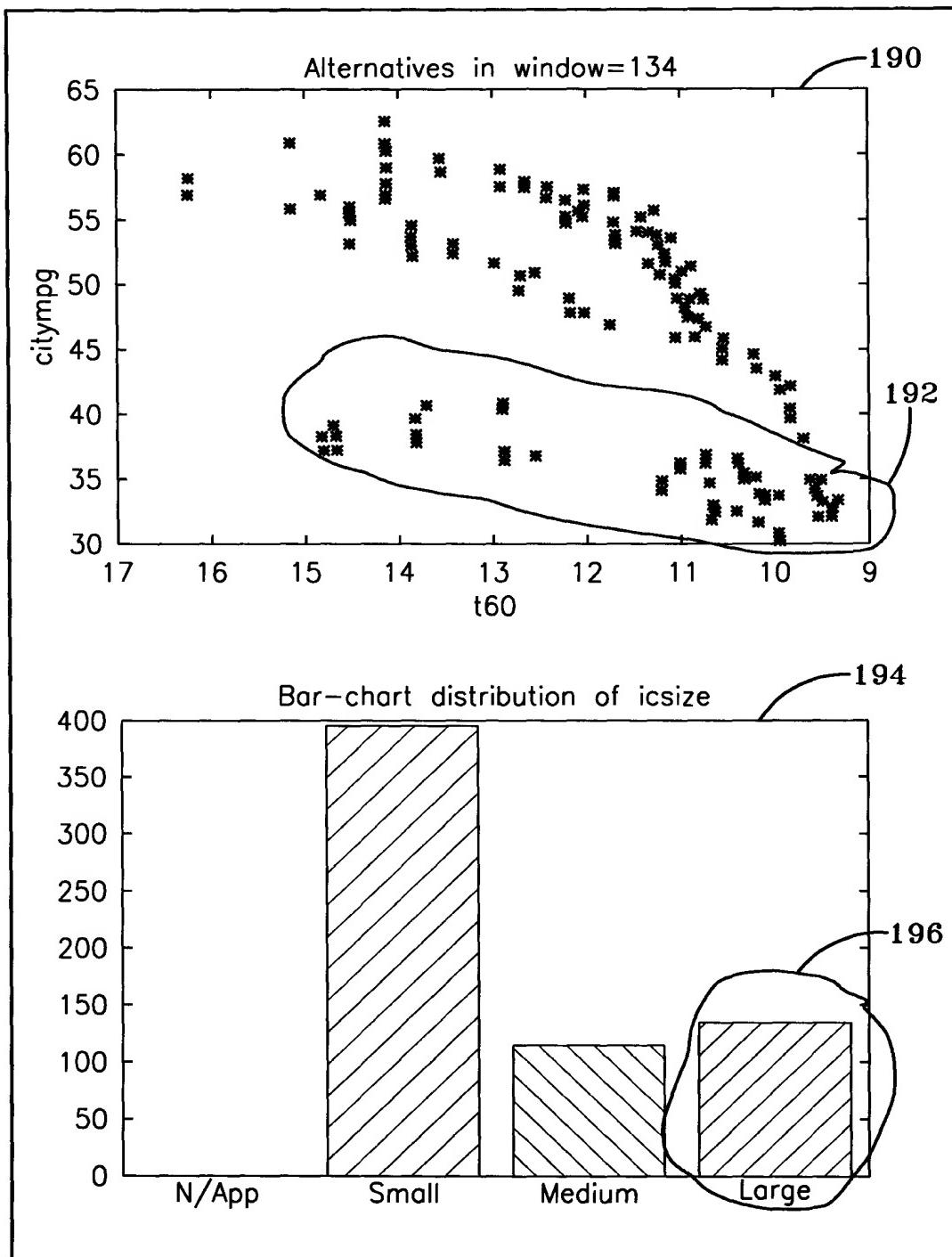


FIG-19

REPLACEMENT SHEET

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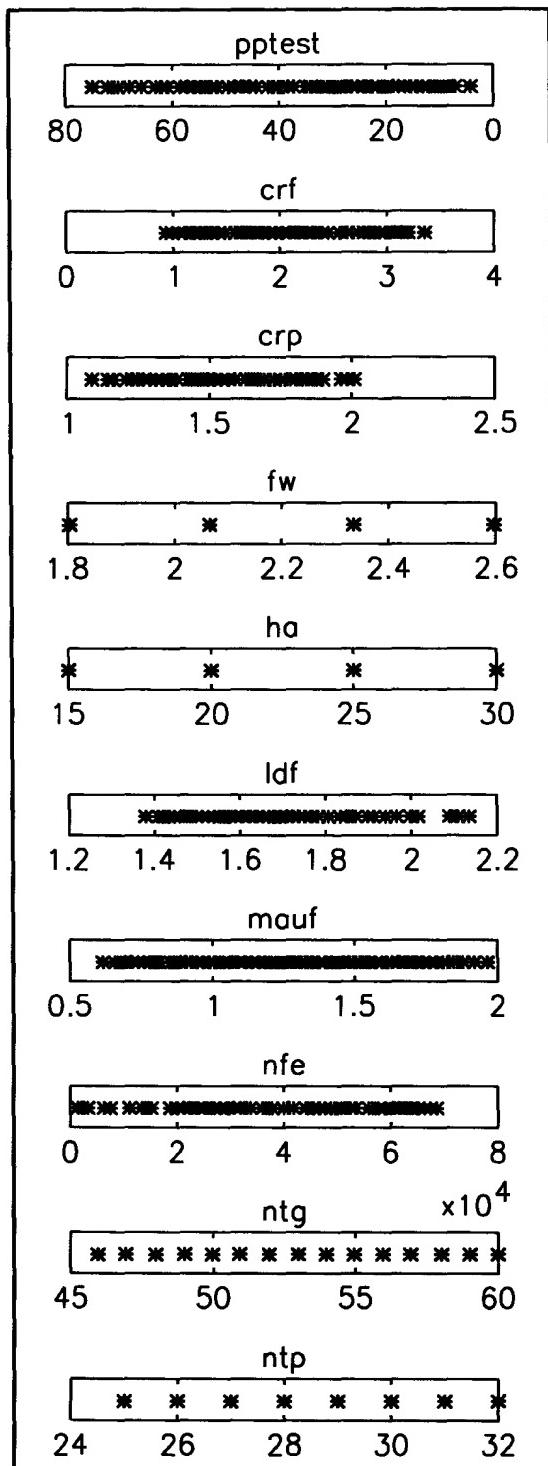
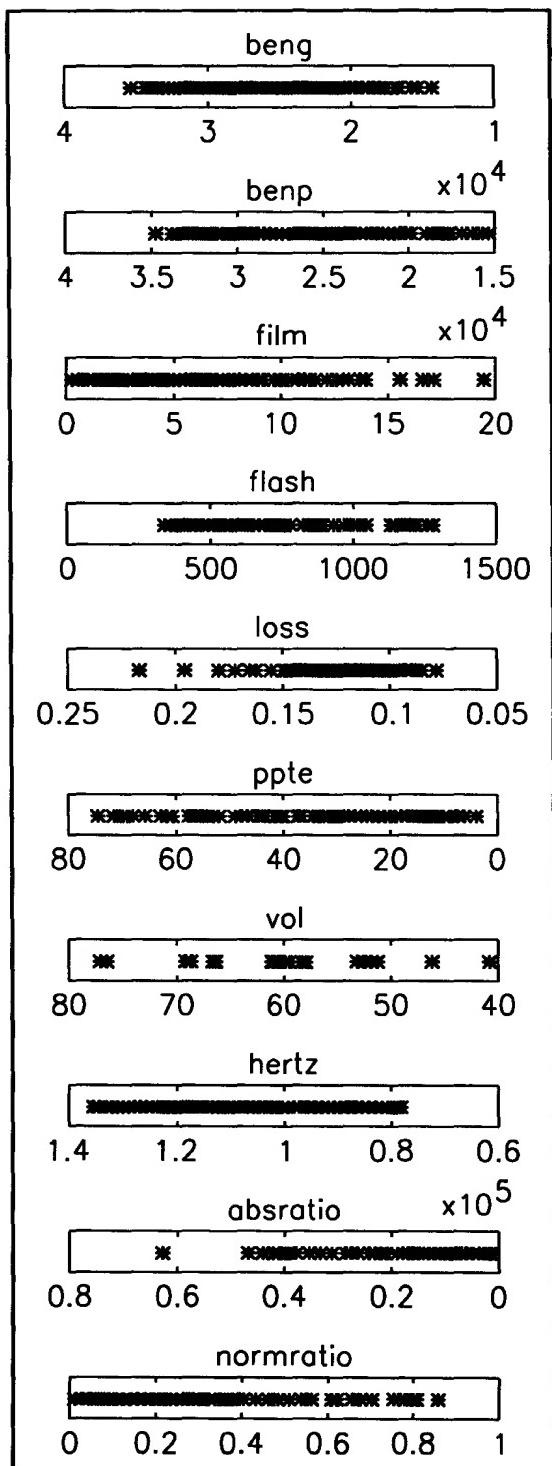


FIG-20A

FIG-20B

REPLACEMENT SHEET

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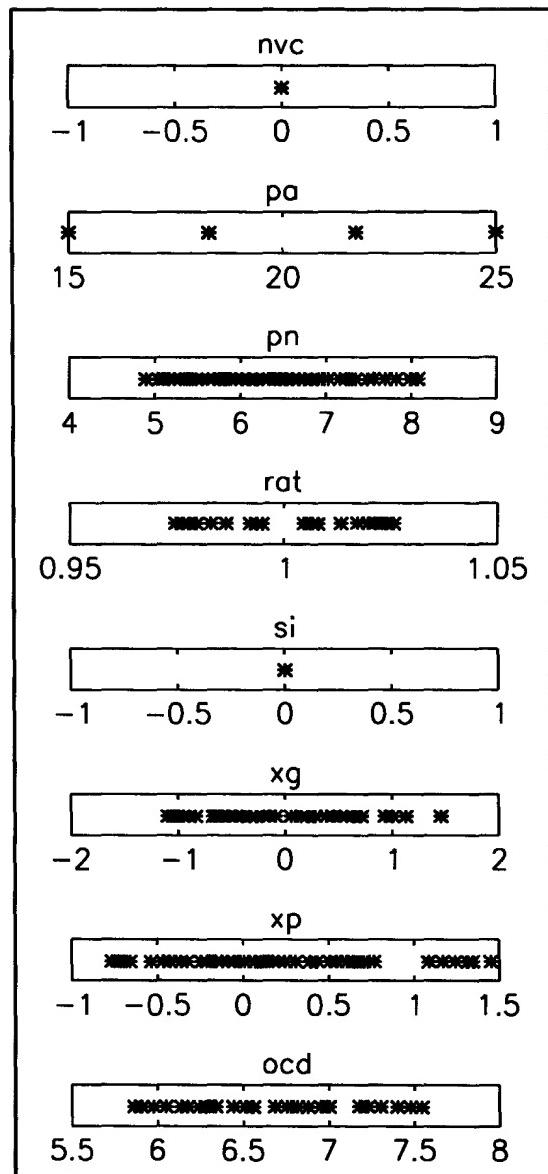


FIG-20C

REPLACEMENT SHEET

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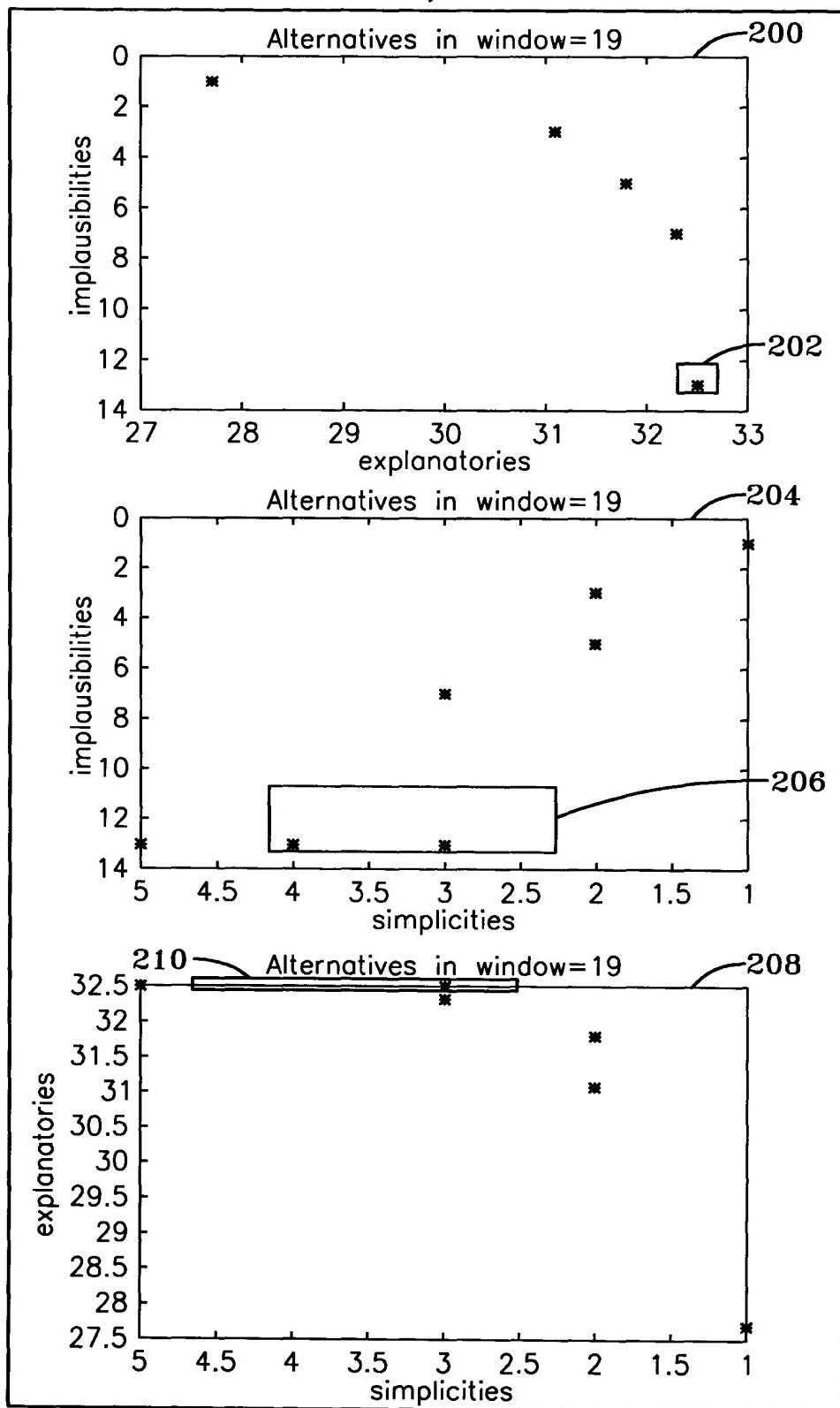
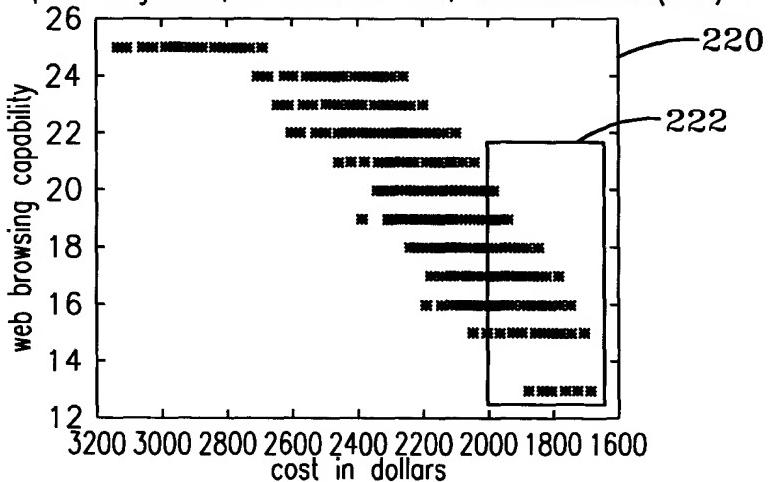


FIG-21

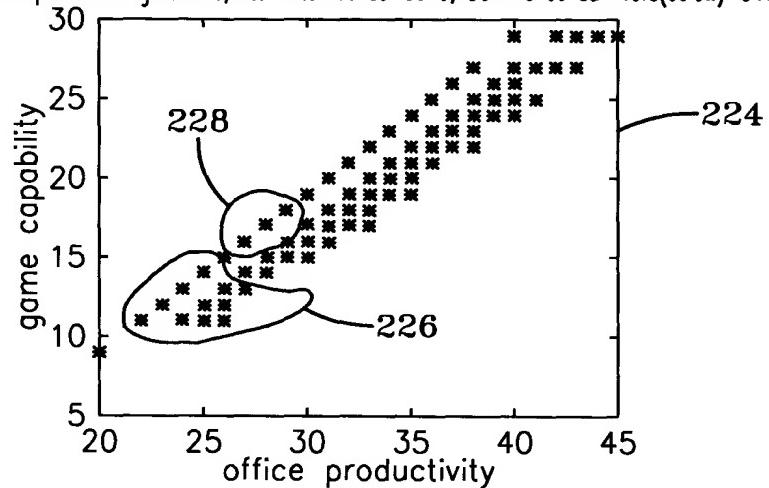
REPLACEMENT SHEET

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Domain-Computer configurations; Total alternatives-8640; Dominance survivors(below)-347



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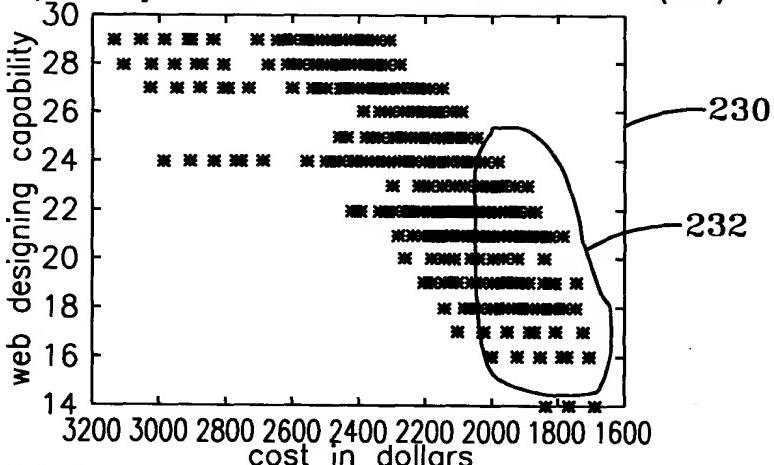


FIG-22

REPLACEMENT SHEET

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